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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	EY DOCKET NO. CONFIRMATION NO.	
10/710,264	06/30/2004	Wayne Tseng	VIAP0115USA 4263		
27765 7	590 07/21/2006		EXAMINER		
NORTH AMERICA INTELLECTUAL PROPERTY CORPORATION P.O. BOX 506 MERRIFIELD, VA 22116			BAE, JI H		
			ART UNIT	PAPER NUMBER	
			2115		

DATE MAILED: 07/21/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)			
Office Action Summary		10/710,264	TSENG, WAYNE			
		Examiner	Art Unit			
		Ji H. Bae	2115			
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY P WHICHEVER IS LONGER, FRO Extensions of time may be available under the after SIX (6) MONTHS from the mailing date If NO period for reply is specified above, the Failure to reply within the set or extended pe	M THE MAILING DA ne provisions of 37 CFR 1.13 of this communication. maximum statutory period w nod for reply will, by statute, ree months after the mailing	ATE OF THIS COMMUNICATION	lely filed the mailing date of this communication. (35 U.S.C. § 133).			
Status						
 Responsive to communicate This action is FINAL. Since this application is in a closed in accordance with the 	2b)⊠ This condition for allowar	action is non-final.				
Disposition of Claims						
4) ☑ Claim(s) 1-29 is/are pendin 4a) Of the above claim(s) _ 5) ☐ Claim(s) is/are allow 6) ☑ Claim(s) 1-29 is/are rejecte 7) ☐ Claim(s) is/are object 8) ☐ Claim(s) are subject	is/are withdrav red. d. cted to.	·				
Application Papers						
	t any objection to the	☑ accepted or b)☐ objected to drawing(s) be held in abeyance. See on is required if the drawing(s) is obj	e 37 CFR 1.85(a). ected to. See 37 CFR 1.121(d).			
Priority under 35 U.S.C. § 119						
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
Attachment(s) 1) Notice of References Cited (PTO-892)		4) ☐ Interview Summary	(PTO-413)			
2) Notice of Draftsperson's Patent Drawing 3) Information Disclosure Statement(s) (Praper No(s)/Mail Date 7-1-2005.		Paper No(s)/Mail Da				

DETAILED ACTION

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 1-29 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Applicant has repeatedly used the phrase "aligning data transmitting timing of a plurality of lanes" in both the specification and claims [claims 1, 11, 13, 14, 21-24, and 26-28]. From applicant's disclosure, it is apparent that the applicant's intent is to provide a system and method that mitigates the effects of differences in transmission times along parallel data paths ("lanes", per applicant's terminology) by selectively adjusting and delaying the time at which the data arrives – e.g. "aligning" the data at the receiver. However, the meaning of the phrase "aligning data transmitting timing of a plurality of lanes" is unclear, and may be interpreted to mean something else entirely. For example, "aligning data transmitting timing of a plurality of lanes" may be read to mean "aligning data that transmits timing information for a plurality of lanes". Additionally, the examiner notes that the data is what is being aligned, with the transmission time being adjusted in order to align the data.

Based on applicant's disclosure, the examiner recommends amending all instances of the phrase to read as "aligning the data at a receiver by adjusting the transmission time for a plurality of lanes", or something similar. Art Unit: 2115

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 24-29 are rejected under 35 U.S.C. 102(e) as being anticipated by Schanke et al, U.S. Patent Application Publication No. 2004/0228429 A1.

Regarding claim 24, Schanke teaches a method comprising:

transmitting a plurality of test data sets on each lane; and

aligning the data transmitting timing of each lane according to a transmitting status of a test data set on each lane [paragraphs 0008, 0014, 0095-0097].

Regarding claim 25, Schanke teaches that the test data set comprises a plurality of COM symbols and a plurality of SKP symbols [paragraph 0086].

Regarding claim 26, Schanke teaches that the data is aligned according to the number of COM symbols and the number of SKP symbols within each lane.

Regarding claim 27, Schanke teaches that when the last COM symbol within the data sets is detected, aligning the data of each lane by the number of COM symbols and the number of SKP symbols.

Regarding claim 28, Schanke teaches determining an offset value of each lane according to the test data sets; and

aligning the data of each lane by said offset value [adjusted for the missing skip symbol, paragraph 0095].

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Regarding claim 29, Schanke teaches determining the amount of delay applied to each lane by an offset value.

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure:

Lau et al., U.S. Patent No. 6,578,092 B1;

Sato et al., U.S. Patent No. 6,359,815 B1;

Mitchell et al., U.S. Patent Application Publication No. 2005/0024926 A1;

Renaud et al., U.S. Patent Application Publication No. 2005/0141661 A1;

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ji H. Bae whose telephone number is 571-272-7181. The examiner can normally be reached on Monday-Friday, 10 am to 6:30 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Thomas Lee can be reached on 571-272-3667. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

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